

Master's of Science in Civil Engineering Program Plan

Student Information

Name _____
 Student # _____
 UW NetID _____
 Program Thesis Non-Thesis

Area of Study (select one)

- Construction, Energy & Sustainable Infrastructure
- Environmental Engineering (select subarea)
- Geotechnical Engineering
- Hydrology & Hydrodynamics (select subarea)
- Structural Engineering
- Transportation Engineering

 Faculty Adviser Signature Date

Quarter		
Year		
Course #	Title	Credits

Quarter		
Year		
Course #	Title	Credits

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Quarter		
Year		
Course #	Title	Credits

Submit your approved Program Plan to the Graduate Advisers in More 201 by the end of your first quarter and an updated plan in your final quarter. Failure to do so may delay graduation.

Master's of Science in Civil Engineering Program Plan

Geotechnical Engineering

Research Track (Thesis Option)

- 33 credits of coursework
- 9 credits of CEE 700 - Master's Thesis
(max 12 credits with faculty approval in place of 3 coursework credits)

Professional Master's Program (Coursework Option)

- 42 credits of coursework

General Degree Requirements (42 total credits)

- | | | |
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| <ul style="list-style-type: none"> <input type="checkbox"/> 18 credits minimum 500 level coursework <input type="checkbox"/> 18 credits minimum of 400-500 level coursework <input type="checkbox"/> 3 credits minimum outside of CEE coursework
All CEE coursework (except seminars) taken for numeric grade | <ul style="list-style-type: none"> <input type="checkbox"/> 3 credits maximum of CEE 600 - Independent Study <input type="checkbox"/> 3.0 Minimum cumulative GPA overall <input type="checkbox"/> 3.0 Minimum cumulative GPA in Geotechnical coursework <input type="checkbox"/> 2.7 minimum grade for a course to count | <ul style="list-style-type: none"> <input type="checkbox"/> 499 credits do not count towards a graduate degree <input type="checkbox"/> 300 and below coursework does not count towards a graduate degree <input type="checkbox"/> 6 year max to complete degree (including official On Leave status) <input type="checkbox"/> 6 credits maximum of approved transfer credits |
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Required Coursework

- | | | |
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| <p>Autumn Quarter</p> <ul style="list-style-type: none"> <input type="checkbox"/> CEE 561 Adv Soil Mech (4) | <p>Winter Quarter</p> <ul style="list-style-type: none"> <input type="checkbox"/> CEE 566 Slope Stability and Landslides (3) | <p>Spring Quarter</p> <ul style="list-style-type: none"> <input type="checkbox"/> CEE 567 Advanced Foundation Engineering (3) <input type="checkbox"/> CEE 569 Geological Eng & Rock Mechanics (3) |
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Required Electives

19 credits of the following courses are required for PMP student, 15 5redits for Thesis Students

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| <p>Autumn Quarter</p> <ul style="list-style-type: none"> <input type="checkbox"/> CEE 562 Adv Geotech Lab (5) <input type="checkbox"/> CEE 563 Phys-chem Aspects of Soil Beh (3) | <p>Winter Quarter</p> <ul style="list-style-type: none"> <input type="checkbox"/> CEE 564 Computational Geomechanics (4)* <input type="checkbox"/> CEE 565 Soil Dynamics (3) <input type="checkbox"/> CEE 571 Case Histories (3) | <p>Spring Quarter</p> <ul style="list-style-type: none"> <input type="checkbox"/> CEE 568 Geotechnical Earthquake Eng (3) <input type="checkbox"/> CEE 570 Geosystems Engineering (3)* |
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*Course is not being offered 2020-2021

Suggested Electives

The remaining course requirements for the MSCE degree can be satisfied by any 5XX and some 4XX courses in the CEWA program, as well as a variety of relevant courses from other departments at the UW. Students are encouraged to explore the availability of these courses and decide on an individual plan of study that balances depth and breadth, in line with the student's career goals, with guidance and approval from their faculty adviser.

Note: This is not a comprehensive list but rather suggestions for some relevant courses. Refer to the UW Time Schedule or the corresponding department for course offering details.

AA 540/541 Finite Element Analysis I & II (3 each)
 AMATH 506 Applied Probability Statistics (4)
 AMATH 581, 582, 583 Scientific Computing (5)
 AMATH 584, 585, 586 Numerical Analysis (5)
 ARCH 574 Design and Construction Law (3)

ATM S 552 Objective Analysis
 CEE 508 Materials Modeling (3)
 CEE 501 Structural Mechanics
 ESS 512 Seismology
 ESS 522 Geophysical Data Collection and Analysis

ESS 523 Geophysical Inverse Theory
 STAT 504, 506 Applied Regression, Applied Prob. & Stat.
 STAT 512 Statistical Inference
 STAT 520 Spectral Analysis of Time Series